

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-115  
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That General Motors Corporation exhaust emission control systems for 1978 model-year medium duty vehicles are certified for the vehicles described below:

Engine Family: 812F1SU  
Engine: 250 CID  
Transmission: 3 and 4-speed manual, 3-speed automatic  
Exhaust Emission Control System: Air Injection, Early Fuel Evaporation, Exhaust Gas Recirculation, Oxidation Catalyst

Models and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
812F1SU	0.5	7	1.7

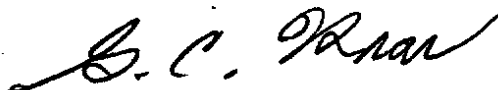
BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-6 series.

BE IT FURTHER RESOLVED: That the above models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-powered Motor Vehicles except Motorcycles".

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 2 day of September, 1977.



G. C. Hass, Chief  
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET-GM FORMAT

Manufacturer GENERAL MOTORS CORPORATION Executive Order No. A-6-115 Page 1

Engine Family 812F1SU Engine (CID) 250

ABBREVIATIONS

<u>Distributor</u>	<u>Exhaust Emission Control</u>	<u>ESAC-Electronic Spark Advance Control</u>
C-Centrifugal Advance	AI-Air Injection	OC-Oxidation Catalyst
V-Vacuum Advance	CAI-Catalyst Air Injection	OS-Oxygen Sensor
VR-Vacuum Retard	EFI-Electronic Fuel Injection	PAI-Pulse Air Injection
HEI-High Energy Ignition Fuel System	EGR-Exhaust Gas Recirculation	TC-Turbo Charged
EFI	EM-Engine Modification	TWC-Three Way Catalyst
nV-nVenturi Carburetor	EFE-Early Fuel Evaporation	

TRUCK MODEL IDENTIFICATION

1. C = Chevrolet; T = GMC Truck CC10703

2. Chassis Type \_\_\_\_\_

3. GVW Range \_\_\_\_\_

4. CA Dimension Model Type \_\_\_\_\_

5. Cab or Body Style \_\_\_\_\_

② Chassis Type

C—Conventional 4 x 2  
 G—Forward Control 4 x 2 (Body-Frame Integral)  
 K—Conventional 4 x 4 (Four Wheel Drive)  
 F—Forward Control 4 x 2 (Conventional)

④ CA Dimension Model Type

05—Blazer, Jimmy, Step-Van, Value Van  
 07—42"/Pickup, Chassis-Cab  
 08—FC or Motor Home Chassis, Step-Van, Value Van  
 09—56"/Suburban, Chassis-Cab, Pickup  
 10—60"/FC Chassis, Chevy Van, Vandura, Sportvan, Rally Wagon, Chassis-Cab, Step-Van, Value Van  
 11—Motor Home Chassis  
 13—Chevy Van, Vandura, Sportvan, Rally Wagon, Cutaway Van, Hi-Cube Van  
 14—84"/FC or Motor Home Chassis, Chassis-Cab, Step-Van, Value Van  
 16—Cutaway Van, Hi-Cube Van  
 18—Motor Home Chassis

③ Series GVW Range

1—4800 to 7300  
 2—6400 to 8400  
 3—6400 to 14,500

⑤ Cab or Body Style

03—Conventional Cab (C-K models); Cutaway Van, Hi-Cube Van (G models)  
 05—Chevy Van, Vandura  
 06—Suburban/Sportvan, Rally Wagon with Panel Rear Doors  
 16—Blazer, Jimmy  
 22—Motor Home Chassis  
 42—Forward Control Chassis, Step-Van, Value Van  
 43—Bonus Cab, Crew Cab

⑥ Body Code

ZW9—Base Body  
 Z58—Blazer, Jimmy w/White Top  
 Z59—Blazer, Jimmy w/Black Top  
 Z64—RV Cutaway Van  
 E31—Hi-Cube Van (10' Steel 96" Wide)  
 E32—Step-Van, Value Van (Steel)  
 E33—Step-Van, Value Van (Aluminum)  
 E34—Hi-Cube Van (10' Steel 82" Wide)  
 E36—Hi-Cube Van (96" Wide 10' Aluminum)  
 E38—Hi-Cube Van (12' Steel 96" Wide)  
 E39—Hi-Cube Van (96" Wide 12' Aluminum)  
 E55—Suburban (w/End Gate)  
 E62—Stepside (Fenderside) Pickup  
 E63—Fleethide (Wide Side) Pickup  
 E94—Beauville Sportvan, Rally STX

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Light Duty Trucks

Medium Duty Vehicles

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-115 Pg. 2

Engine Family 812F1SU Engine (CID) 250 Transm. \_\_\_\_\_

Exhaust Emission Control System AI,EFE,EGR,OC +10% (A/C) Yes  No

Eng. Code	Air Cond.	Distrib. Type HEI C.V Mfgr. Part No.	Fuel System TV Mfgr. Part No.	EGR System Part No. Service	Inertia Wt. Class	See Page One for:		Trans- mission	Tune-up Label & Page No.	Rev. Notes
						Model Code	Body Code(s)			
1	W or WO	Delco 1110715	Rochester 17058311 (C Trucks) 17058313 (G Trucks)	17057906 No Service	4000	CC10703	E62	M-3,4	XX 4 or XY 4	
						T				
						C	E63	M-3		
						T				
						CC10903	E62			
						T				
						CG21005	None			
						T				
					4500	CC10703	E63	M-4		
						T				
						CC10903	E62			
						T				
						C	E63	M-3,4		
						T				
						CC20903	E62			
						T				
						C	E63			
						T				
						CG21006	None	M-3		
						T				
					CG21305					
					T					
					CG21306					
					T					
					C	E94				
					T					
					CG31005	None				
					T					
					CG31305					
					T					

Comments: See page one for abbreviations, Label XX is for single evap. canister, XY is for dual canisters.

Date of Issue 101777 Revisions:

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Light Duty Trucks

Medium Duty Vehicles

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-115 Pg. 3

Engine Family 812F1SMJ Engine (CID) 250 Transm. \_\_\_\_\_

Exhaust Emission Control System AI, EFE,EGR,OC +10% (A/C) Yes  No

Eng. Code	Air Cond.	Distrib. Type HEI C,V Mfgr. Part No.	Fuel System 1V Mfgr. Part No.	EGR System Part No. Service	Inertia Wt. Class	See Page One for:		Trans- mission	Tune-up Label & Page No.	Rev. Notes
						Model Code	Body Code(s)			
2	W or WO	Delco 1110719	Rochester 17058310 (C Trucks) 17058312 (G Trucks)	17056729 No Service	4000	CC10703	E62	A-3	XX 4 or XY 4	
						T C T CG21005 T	E63  None			
					4500	CC10903	E62			
						T C T CC20903 T C T CG21006 T CG21305 T CG21306 T C T CG31005 T CG31305 T	E63  E62  E63  None    E94  None			

Comments: See page one for abbreviations. Label XX is for single evap. canister, XY is for dual canisters.

Date of Issue 101777 Revisions:

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Light Duty Trucks  Medium Duty Vehicles

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-115 Pg. 4

Engine Family 812F1SU Engine (CID) 250 Transm. \_\_\_\_\_

**XX**

250 CU. IN.  
812F1SU  
88BV

**VEHICLE EMISSION CONTROL INFORMATION**

GENERAL MOTORS CORPORATION



**SET PARKING BRAKE AND BLOCK DRIVE WHEELS.**

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER. TURN CARBURETOR SOLENOID TO OBTAIN SPECIFIED CURB IDLE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
3. DISCONNECT ELECTRICAL LEAD AT SOLENOID. ADJUST BASE IDLE SPEED TO SPECIFICATION BY TURNING 1/8 HEX. SCREW LOCATED IN END OF SOLENOID BODY. RECONNECT ELECTRICAL LEAD.
4. WITH TRANSMISSION IN PARK OR NEUTRAL, BEND FAST IDLE CAM FOLLOWER TO OBTAIN SPECIFIED FAST IDLE SPEED ON HIGH STEP OF CAM. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER.

**CATALYST**

AIR-EGR-EFE  
LOW ALTITUDE CERTIFICATION

TRANSMISSION

	AUTOMATIC	MANUAL
TIMING (° BTC @ RPM)	10° @ 600	8° @ 750
SPARK PLUG GAP (IN.)	0.035	0.035
CURB IDLE SPEED (RPM)	600 (DR)	750 (N)
BASE IDLE SPEED (RPM)	425 (DR)	425 (N)
FAST IDLE SPEED (RPM)	2100 (P) OR (N)	2100 (N)

**[NOTE]** IDLE MIXTURE SCREW IS PRESET AND CAPPED AT FACTORY — DO NOT BREAK CAP — ADJUSTMENT DURING TUNE UP IS NOT RECOMMENDED.

FOR MAJOR REPAIR, ADJUSTING MIXTURE SETTING BY OTHER THAN APPROVED SERVICE MANUAL PROCEDURE MAY VIOLATE FEDERAL AND/OR CALIFORNIA OR OTHER STATE LAWS.

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE B FOR ADDITIONAL INFORMATION.

PRINTED IN U.S.A.

THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.

PT. NO. 473407

7-25

**XY**

250 CU. IN.  
812F1SU  
8CBV

**VEHICLE EMISSION CONTROL INFORMATION**

GENERAL MOTORS CORPORATION



**SET PARKING BRAKE AND BLOCK DRIVE WHEELS.**

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER. TURN CARBURETOR SOLENOID TO OBTAIN SPECIFIED CURB IDLE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
3. DISCONNECT ELECTRICAL LEAD AT SOLENOID. ADJUST BASE IDLE SPEED TO SPECIFICATION BY TURNING 1/8 HEX. SCREW LOCATED IN END OF SOLENOID BODY. RECONNECT ELECTRICAL LEAD.
4. WITH TRANSMISSION IN PARK OR NEUTRAL, BEND FAST IDLE CAM FOLLOWER TO OBTAIN SPECIFIED FAST IDLE SPEED ON HIGH STEP OF CAM. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER.

**CATALYST**

AIR-EGR-EFE  
LOW ALTITUDE CERTIFICATION

TRANSMISSION

	AUTOMATIC	MANUAL
TIMING (° BTC @ RPM)	10° @ 600	8° @ 750
SPARK PLUG GAP (IN.)	0.035	0.035
CURB IDLE SPEED (RPM)	600 (DR)	750 (N)
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FAST IDLE SPEED (RPM)	2100 (P) OR (N)	2100 (N)

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PT. NO. 473408

7-25